Serial No. 09/902,749

REMARKS

A new substitute application has been submitted in a sincere attempt to overcome the criticisms in the Office Action of the text in the application as filed.

Applicant respectfully submits, however, that it is not necessary in this application to provide all of the identifiers indicated in Sections D. and E. of the Office Action. Applicant submits that the essential characteristics by which the plant can be distinguished are amply recited in the enclosed application.

The substitute application does contain a comparison between the instant plant and 'Cream Elite Reagan.' The bloom height is now characterized as low.

The requirement for information under 37 CFR 1.105 is acknowledged. The Examiner is informed that cuttings of the plant were first sold in the Netherlands in January 1999.

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Reconsideration of the case is earnestly solicited.

Respectfully submitted,

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Charles A. Wendel

Registration No. 24,453

Date

CAW/ch

Enclosures:

Substitute application

Markup

Attorney Docket No.: CHRE:112

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Saial Chrysanthemum Named 'Sunny Elite Reagan'

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RELATED CULTIVARS

'Sunny Elite Reagan' is related to 'White Elite Reagan' (#.....) and the co-pending application of 'Cream ...). 'Sunny Elite Reagan' and 'Cream Elite Reagan' are both natural mutants of 'White pending Jariel No. 09/802,750 Elite reagan'

BACKGROUND OF THE INVENTION

'Sunny Elite Reagan' is a product of a breeding and selection program which had the objective of finding color mutants of 'White Elite Reagan'. The new plant of the present invention comprises a new and distinct cultivar of chrysanthemum plant comparison with Parent chrysanthemum 'White Elite Reagan' is also made in this application. The new cultivar was discovered as a whole plant mutation in April 1999 by Rob Noodelijk in a controlled environment (greenhouse) in Rijsenhout Holland. The first act of asexual reproduction of 'Sunny Elite Reagan' was accomplished when vegetative cuttings were taken from the initial selection in June 1999 in Rijsenhout Holland. The Mew Caltilar has been What to Netaliiti dirthetin chareten the through phecessis physagetten

SUMMARY OF THE INVENTION

The present invention is a new and distinct variety of chrysanthemum bearing medium sized blooms with yellow rayflorets and yellow-green disc florets.

BRIEF DESCRIPTION OF THE DRAWINGS

The present invention of a new and distinct variety of chrysanthemum is shown in the accompanying drawings, the color Chrysanhown won Edilum being as nearly true as possible with color photographs of this type.

Fig. 1 shows a plant of the cultivar in full bloom.

Fig. 2 shows the various stages of bloom of the new cultivar.

Fig.3 shows the foliage of the new cultivar.

DESCRIPTION OF THE INVENTION

This new variety of chrysanthemum is of the botanical classification dendranthema grandiflord. The observations and measurements were gathered from plants grown in April / May in a greenhouse in Rijsenhout. Holland in a photo-periodic controlled crop under conditions generally used in commercial practice. The greenhouse temperatures during this crop were at day-time between 18°C and 25°C and at night 20°C. After a long day period of 14 days the photo-periodic response time in this crop was 50 days. After the long day period to flowering growth retardants were applied 2 to 3 times in an average dose of 2.5 gram / liter water. No tests were done on disease or insect resistance or susceptibility. This new variety produces medium sized blooms with yellow ray-florets and yellow-green disc-florets blooming on the plant for 5 weeks. This new variety of chrysanthemum has been found to retain its distinctive characteristics throughout successive propagations however the phenotype may vary significantly with variations in environment such as light intensity and temperature. To show the phenotype as described 'Sunny Elite Reagan' can be planted without assimilation lightning (high pressure sodium lamps) between week 50 and week 40 of the next year under greenhouse conditions in Holland. With assimilation light (minimum level 2500 lux) it can be planted year round under greenhouse conditions in Holland.

From the cultivars known to inventor the most similar existing cultivar in comparison to 'Sunny Elite Reagan' is 'White Elite Reagan' and 'Sunny Reagan' are being compared the following differences and similarities are noticed: The difference of 'White Elite Reagan' and 'Sunny Elite Reagan' and 'Sunny Elite Reagan' is the flower color for which characteristics 'Sunny Elite Reagan' has been selected out of 'White Elite Reagan'. All other characteristics of 'White Elite Reagan' and 'Sunny Elite Reagan' are similar.

The differences of 'Sunny Elite Reagan' and 'Sunny Reagan' are: (1) Disc flower color and size. The flower disc of 'Sunny Elite Reagan' is more green and smaller. (2) Growth rate. The growth of 'Sunny Elite Reagan' is more vigorous. (3) Response time. The response time of 'Sunny Elite Reagan' is 3 till 4 days shorter.

The following is a description of the plant and characteristics that distinguish 'Sunny Elite Reagan' as a new and distinct variety.

The color designations are taken from the plant itself. Accordingly, any discrepancies between the color designations and the colors depicted in the photographs are due to photographic tolerances. The color chart used in this description is: The Royal Horticultural Society color chart, edition 1995.

Table 1:Botanical Description of

CULTIVAR 'Sunny Elite Reagan'

Bud

Size Medium, cross-section [+/-].0 cm height [+/-]

0.8 cm

Outside Color Yellow 9 A

Involucral bracts 2 rows, length 7 mm, width 3 mm

Involucral bracts among disc-florets Not present

Involucral bracts color Green 138 B

Bloom

Type Single

Height [Flat] Low

Size Medium

Fully Expanded 6.0 - 7.0 cm

Number of blooms per single stem Average of 11 - 12

Seeds Not produced

Performance (blooming period) 26 – 28 days

Fragrance Typical chrysanthemum

Color

Center of the flower (disc-florets) Immature yellow-green 144 B, mature

yellow-green 144 B to yellow 3 A along the

border

Color of upper surface of the majo-

Yellow 5 A

rity of the ray-florets

Color of the lower surface of the

Yellow 5 C

majority of the ray-florets

Tonality from Distance A spray mum with yellow flowers and a

yellow-green disc

Discoloration to color

Yellow 4 A

Ray florets

Texture Upper and under side smooth

Number 20 – 22

Cross-section Flat, sometimes convex

Longitudinal axis of majority Straight, sometimes reflexing

Length of corolla tube Very short to short

Ray-floret length 3.5 cm

Ray-floret width 1.2 cm

Ratio length / width Low to medium

Shape of tip Pointed

Disc florets

Disc diameter Medium to small, 1.0 – 1.2 cm

Distribution of disc florets Numerous, clearly visible at all stages of

flowering

Type Tubular

Color Yellow-green 144 A

Receptacle shape Conical raised

Reproductive Organs

Stamen (present in disc florets only) Yellow-green, thin 3 mm in length

Stamen color Yellow-green 150 B

Pollen Appears at a very late stage of flowering,

Pollen color Close to yellow 12 A

Styles (present in both ray and disc Green, thin

florets)

Style color Green 143 B

Style Length 4 mm

[Stigmas] Hijhe Who. Yellow-green 14

Stigma Width 1 mm

Ovaries Enclosed in calyx

Plant

Form A spray mum meant for erect culture

Growth habit Upright

Growth rate Vigorous

Height 105 – 130 cm

internodes 3- 3.5 cm

Spray formation Corymbiform (funnel-shaped with a little

round to flat umbel on top)

Peduncle length Near the top 14 cm, near the middle 21 cm,

near the bottom 26 cm

Peduncle color Green 138 B

Peduncle, attachment Good, not brittle

Peduncle, angle with stem Small, 30°

Stem Color Green 137 A

Stem Strength Medium

Stem Brittleness Absent

Stem Anthocyanin Coloration Absent

Flowering Response(photo-periodic 50 days

controlled crop, not natural season)

Foliage

Color Upper side Under side

Size Medium; length [+/-] 2 cm, width [+/-] cm

Quantity (number per single stem) 22 - 28

Shape Ovate

Texture upper side [Scabrous] (Labyung

Texture under side

(Slightly pubescent

Venation arrangement

Pinnate

Shape of the margin

Lobed

Shape of Base of Sinus Between

Round

Lateral Lobes

Margin of Sinus Between Lateral

Diverging

Lobes

Shape of Base

Truncate, sometimes asymmetrical

Apex

Mucronate

Table 2:	Differences	with the	comparison	Varieties
I doic 2.	Differences	with nic	COMPANISON	v an ionica

Table 2: Differences with the comp	parison Varieties	<u>Clear</u>	
	'Sunny Elite Reagan'	White Elite Reagan'	'Sunny Reagan'
Color of the ray-florets	Yellow 5 A	(White 155 D)	Yellow 5 A
Flower disc size	1.0 - 1.2 cm	1.0 – 1.2 cm	1.5 cm
Flower disc color immature	Yellow-green 144 A	Yellow-green 144 A	Yellow-green 151 C
Growth rate	vigorous	vigorous	Strong
Peduncle, angle with stem	30°	30°	30 - 35°
Response time in days	50	49	53 –54
		Yellay 5 P	

LCLAIM:

A new and distinct variety of chrysanthemum plant as described and illustrated.

ABSTRACT:

A Chrysanthemum plant named 'Sunny Elite Reagan' characterized by its medium sized blooms with yellow ray-florets and yellow-green disc florets.